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APPLICATION NO).	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/717,027		11/19/2003	Richard L. Bohl	PROPH1100-1	7323
25094	7590	01/24/2006		EXAMINER	
		NICK GRAY CARY	LIN, SUN J		
2000 Univ E. Palo Ali		enue 94303-2248		ART UNIT	PAPER NUMBER
2,1010111	,			2825	
				DATE MAILED: 01/24/200	6

Please find below and/or attached an Office communication concerning this application or proceeding.

			H.I
	Application No.	Applicant(s)	•
	10/717,027	BOHL ET AL.	
Office Action Summary	Examiner	Art Unit	
	Sun J. Lin	2825	
The MAILING DATE of this communication ap Period for Reply	ppears on the cover sheet v	vith the correspondence address	·
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING C - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUN 136(a). In no event, however, may a will apply and will expire SIX (6) MO te, cause the application to become A	ICATION. A reply be timely filed ENTHS from the mailing date of this communication ABANDONED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on 11/2	<u>29/2003</u> .		
2a) This action is FINAL . 2b) ☑ Thi	s action is non-final.		
3) ☐ Since this application is in condition for allowa	•	•	its is
closed in accordance with the practice under	Ex parte Quayle, 1935 C.	D. 11, 453 O.G. 213.	
Disposition of Claims			
4)⊠ Claim(s) <u>1-36</u> is/are pending in the application	n.		
4a) Of the above claim(s) is/are withdra	awn from consideration.		
5)⊠ Claim(s) <u>13-18 and 30-35</u> is/are allowed.			
6)⊠ Claim(s) <u>1-12,19-29 and 36</u> is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction and/	or election requirement.		
Application Papers			
9) The specification is objected to by the Examin	er.		
10)⊠ The drawing(s) filed on <u>11/19/2003</u> is/are: a)[ted to by the Examiner.	
Applicant may not request that any objection to the			
Replacement drawing sheet(s) including the correct			21(d).
11)☐ The oath or declaration is objected to by the E	xaminer. Note the attache	ed Office Action or form PTO-15	52.
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign	n priority under 35 U.S.C.	§ 119(a)-(d) or (f).	
a) ☐ All b) ☐ Some * c) ☐ None of:		3 (/ / . / / . /	
1. Certified copies of the priority documen	its have been received.		
2. Certified copies of the priority documen		Application No	
3. Copies of the certified copies of the price	ority documents have bee	n received in this National Stage	е
application from the International Burea	au (PCT Rule 17.2(a)).		
* See the attached detailed Office action for a list	t of the certified copies no	t received.	
Attachment(s)	, , , , , , , , , , , , , , , , , , , 	O	
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)		Summary (PTO-413) (s)/Mail Date	
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date 11/19/03,8/25/04.		Informal Patent Application (PTO-152)	

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DETAILED ACTION

This office action is in response to application 10/717,027 filed on 11/19/2003.
 Claims 1 – 36 remain pending in the application.

Drawing Objections

2. Drawings are objected to because of following informalities:

Fig. 4, label —Yes— and —No— on two paths branching from "resolved?" Box 366.

Appropriate correction is required.

Claim Objections

3. Claims listed below are objected to because of the following informalities:

Claim 1, line 1, change "a device" to —an electronic device—.

Claim 3, line 2, before "at least" insert —the—.

Claim 10, line 3, before "design" insert —device—.

Claim 12, line 5, delete —one of the—.

Claim 13, line 1, change "a device" to —an electronic device—.

Claim 13, line 6, after "executing" delete —on—.

Claim 16, line 3, change "the design" to —a device design—.

Claim 29, line 6, delete —one of the

Claim 30, line 6, after "executing" delete —on a—.

Appropriate corrections are required.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

⁽e) the invention was described in-

⁽¹⁾ an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effect under this subsection of a national application published under section 122(b) only if the

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international application designating the United States was published under Article 21(2)(a) of such treaty in the English language; or

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- (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that a patent shall not be deemed filed in the United States for the purposes of this subsection based on the filing of an international application filed under the treaty defined in section 351(a).
- 5. Claims 1 12, 19 29 and 36 are rejected under 35 U.S.C. 102(e) as being unpatentable over U.S. Patent Application Publication No. 2003/0149919 to <u>Greenwald et al.</u>
- 6. As to Claim 1, <u>Greenwald et al.</u> show and teach the following subject matter:
 - Fault diagnosis engine [Fig. 3]; Systems and method for diagnosing faults in computer networks (i.e., communication devices) [title; abstract]; Notice that (1) the fault diagnosis engine applies computer-implemented fault diagnosis method (2) a computer network is an electronic device;
 - Detecting 32 a <u>fault</u> (i.e., <u>symptom</u>) of a (communication) device design [Fig. 2]; Particular symptom ...detected fault [Paragraph 0092]
 - Diagnosing the fault (symptom) 40 [Fig. 2];
 - Performing <u>determination of a (potential) root cause</u> of the fault (symptom), a series of <u>fault impact analysis</u> 50 and proposing <u>solutions 90</u>, which is a set of activities, following the diagnosing the fault – [Paragraph 0059];
 - Root cause analysis [Paragraph 0038]; Possible suspect may be causing the symptom– [Paragraph 0095]

For reference purposes, the explanations given above in response to Claim 1 are called [Response A] hereinafter.

- 7. As to Claim 19, reasons are included in [Response A] given above.
- 8. As to Claims 2 and 20, as explained in [Response A] given above, <u>Greenwald et al.</u> disclose determining a (potential) root cause is of the fault is an activity after performing the diagnosing the fault [Paragraph 0059].

For reference purposes, the explanations given above in response to Claims 2 and 22 are called [Response B] hereinafter.

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9. As to Claims 3 and 21, in addition to reasons included in [Response A] and [Response B] given above, <u>Greenwald et al.</u> show in Fig. 3 that fault diagnosis engine sends <u>fault</u> <u>handler</u> (i.e., <u>operator</u>) information regarding a potential root cause – [Fig. 3].

10. As to Claims 4, 5, 22 and 23, <u>Greenwald et al.</u> show and teach that at least one <u>solution</u> (i.e., <u>remedy</u>), which is to be applied to the device design, is proposed to a user (i.e., operator) – [Fig. 2; Fig. 3; Paragraph 0059, 0060, 0071].

For reference purposes, the explanations given above in response to Claims 4, 5, 22 and 23 are called [Response C] hereinafter.

11. As to Claims 7 and 25, <u>Greenwald et al.</u> show and teach the subject matter regarding automated testing or executing at least one remedy (solution) – [Fig. 2A; Fig. 3; Paragraph 0064, 0065].

For reference purposes, the explanations given above in response to Claims 7 and 25 are called [Response D] hereinafter.

- 12. As to Claims 6 and 24, <u>Greenwald et al.</u> teach that fault handler may resident externally to a separate process ... handle a <u>particular fault type</u> [Paragraph 0071]. Notice that the external fault handler provide a specific remedy to the system for the particular fault type detected.
- 13. As to Claims 8 and 26, <u>Greenwald et al.</u> show and teach the subject matter in Fig. 2A.
- 14. As to Claims 9 and 27, <u>Greenwald et al.</u> show and teach fault diagnosis engine triggers an appropriate fault handler by means of switching from fault handler (i.e., design tool) to another fault handler (design tool) [Fig. 2A; Fig. 3; Paragraph 0064].
- 15. As to Claim 10, <u>Greenwald et al.</u> show and teach providing solutions to remedy fault(s) detected in device design of a communication network (electronic device). It is inherent that the communication network is manufactured in accordance with the device design, which is fault-free.

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For reference purposes, the explanations given above in response to Claim 10 are called [Response E] hereinafter.

- 16. As to Claims 11 and 28, <u>Greenwald et al.</u> show and teach fault diagnosis engine automatically generates a trigger (i.e., control) to trigger an appropriate fault handler (design tool) [Fig. 2A; Fig. 3; Paragraph 0064].
- 17. As to Claims 12 and 29, in addition to reasons included in [Response A], [Response C] and [Response D] given above, <u>Greenwald et al.</u> show and teach the following subject matter:
 - Diagnosing (i.e., analyzing) <u>fault data</u> (i.e., generated fault data) in communication network – [Paragraph 0035, 0036]; Notice that data in the communication network under study is generated using a device design (data) source.

For reference purposes, the explanations given above in response to Claims 12 and 29 are called [Response E] hereinafter.

18. As to Claim 36, reasons are included in [Response A], [Response D] and [Response E] given above.

Allowable Subject Matter

- 19. Claims 13 18 and 30 35 are allowed. Those claims are allowed is because that the prior art does not teach or fairly suggest the following subject matter:
 - A computer-implemented method of designing an electronic device comprising
 <u>executing a first remedy when reaching a decision point</u> and <u>selecting a second</u>
 <u>remedy when backtracking to the decision point</u> in combination with other
 limitations as recited in independent Claim 13;
 - A computer-implemented method of designing an electronic device comprising <u>switching priorities between a first remedy and a second remedy after testing or</u> <u>executing the first remedy and the second remedy</u> in combination with other limitations as recited in independent Claim 18;

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A data processing system readable medium having code embodied therein, the
code comprising <u>an instruction for executing a first remedy</u> and <u>an instruction for
selecting a second remedy when backtracking to a decision point</u> in combination
with other limitations as recited in independent Claim 30;

A data processing system readable medium having code embodied therein, the
code comprising <u>an instruction for switching priorities between a first remedy</u>
<u>and a second remedy after testing or executing the first remedy and the second</u>
<u>remedy</u> in combination with other limitations as recited in independent Claim 35.

Conclusion

20. Any inquiry concerning this communication or earlier communications from the examiner should be directed to *Sun James Lin* whose telephone number is (571) 272 - 1899. The examiner can normally be reached on Monday-Friday 9:30AM - 6:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, *Jack Chiang* can be reached on (571) 272 - 7483. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Sun James Lin Patent Examiner Art Unit 2825 January 19, 2006

Jamos Surrbin